ASH GROVE CEMENT COMPANY

"WESTERN REGION"

November 10, 1994

Mr. Fred Austin
Puget Sound Air Pollution Control Agency
110 Union Street, Suite 500
Seattle, WA. 98119-3958

Re: Notice of Construction application for the Finish Mill High Efficiency Separator Project.

Dear Mr. Austin,

Enclosed is a Notice of Construction application for the finish mill high efficiency separator project at Ash Grove's facility at 3801 East Marginal Way So., Seattle WA. 98134 and check (#3860) for $5,000 as required by Section 6.04 of Regulation I for the NOC review fee.

If you have any questions regarding this application, please call me.

Yours truly,

Gerald J. Brown
Manager, Safety and Environmental

cc: Ed Pierce
Ralph Jones

627129

AGCS2M002191

3801 EAST MARGINAL WAY, SOUTH • SEATTLE, WA 98134 • PLANT OFFICE: (206) 623-5596 • FAX: (206) 623-5355

SEA0594

ASH GROVE CEMENT COMPANY
3801 E. MARGINAL WAY SOUTH (206) 623-5596
SEATTLE, WASHINGTON 98134

No 3860

19-2/1250

11-10 19 94

PAY TO THE ORDER OF PSAPCA $ 5000.00

Five Thousand and 00/100********** DOLLARS

SEAFIRST BANK
® Industrial Branch
2764 First Ave. S.
Seattle, WA 98134

TWO SIGNATURES REQUIRED

⑈00003860⑈ ⑆125000241⑆ 7443 104⑈

SEA0595

AGCS2M002192

PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION
110 Union Street, Suite 500 ▪ Seattle, WA 98101-2038
Telephone: (206) 689-4052

Notice of Construction and Application for Approval

FORM P SIDE 1

Be sure to complete items 39, 40, 41, & 43 before submitting Form P.

(AGENCY USE ONLY)
DATE _____ N/C NUMBER _____
REG. NO. _____ VAR. NO. _____
SIC. NO. _____ COS. NO. _____
GRID NO. _____ UTM _____

1. TYPE OF BUILDING (Check) ○ New ☒ Existing

2. STATUS OF EQUIPMENT (Check) ○ New ☒ Existing ○ Altered ○ Relocation

3. COMPANY (OR OWNER) NAME
ASH GROVE CEMENT COMPANY

4. COMPANY (OR OWNER) MAILING ADDRESS
3801 E MARGINAL WAY SOUTH, SEATTLE WA 98134

5. NATURE OF BUSINESS
PORTLAND CEMENT MANUFACTURER

7. APPLICANT

8. APPLICANT ADDRESS
SAME

9. INSTALLATION ADDRESS

10. TYPE OF PROCESS

EQUIPMENT (ENTER ONLY NEW EQUIPMENT OR CHANGES. ENTER NUMBER OF UNITS OF EQUIPMENT IN COLUMN 'NO. OF UNITS.' COMPLETE FORM 'S' FOR EACH ENTRY.)

11. NO. OF UNITS	SPACE HEATERS OR BOILERS (Complete Form S-A)	14. NO. OF UNITS	OVENS	15. NO. OF UNITS	MECHANICAL EQUIP.	16. NO. OF UNITS	MELTING FURNACES
(a)		(a)	CORE BAKING OVEN	(a)	AREAS	(a)	POT
12. NO. OF UNITS	INCINERATORS (Complete Form S-B)	(b)	PAINT BAKING	(b)	BULK CONVEYOR	(b)	REVERBERATORY
		(c)	PLASTIC CURING	(c)	CLASSIFIER	(c)	ELECTRIC INDUC/RESIST
(a)		(d)	LITHO COATING OVEN	(d)	STORAGE BIN	(d)	CRUCIBLE
13. NO. OF UNITS	OTHER SYSTEMS	(e)	DRYER	(e)	BAGGING	(e)	CUPOLA
		(f)	ROASTER	(f)	OUTSIDE BULK STORAGE	(f)	ELECTRIC ARC
(a)	DEGREASING, SOLVENT	(g)	KILN	(g)	LOADING OR UNLOADING	(g)	SWEAT
(b)	ABRASIVE BLASTING	(h)	HEAT-TREATING	(h)	BATCHING	(h)	OTHER METALLIC
(c)	OTHER — SYSTEM	(i)	OTHER	(i)	MIXER (SOLIDS)	(i)	GLASS
(d) 2	SEPARATORS	(j)		(j)	OTHER	(j)	OTHER NON METALLIC

17. NO. OF UNITS	GENERAL OPER. EQUIP.	17. NO. OF UNITS	GENERAL OPER. EQUIP.	17. NO. OF UNITS	GENERAL OPER. EQUIP.	18. NO. OF UNITS	OTHER EQUIPMENT
(a)	CHEMICAL MILLING	(f)	GALVANIZING	(k)	ASPHALT BLOWING	(a)	SPRAY PAINTING GUN
(b)	PLATING	(g)	IMPREGNATING	(l)	CHEMICAL COATING	(b)	SPRAY BOOTH OR ROOM
(c)	DIGESTER	(h)	MIXING OR FORMULATING	(m)	COFFEE ROASTER	(c)	FLOW COATING
(d)	DRY CLEANING	(i)	REACTOR	(n)	SAWS & PLANERS	(d)	FIBERGLASSING
(e)	FORMING OR MOLDING	(j)	STILL	(o)	STORAGE TANK	(e)	OTHER

CONTROL DEVICES (ENTER NUMBER OF UNITS OF EQUIPMENT IN SPACES IN COLUMNS. COMPLETE A FORM R FOR EACH ENTRY.)

19. NO. OF UNITS	CONTROL DEVICE	20. NO. OF UNITS	CONTROL DEVICE	21. NO. OF UNITS	CONTROL DEVICE	22. NO. OF UNITS	CONTROL DEVICE
(a)	SPRAY CURTAIN	(a)	AIR WASHER	(a)	ABSORBER	(a)	DEMISTER
(b)	CYCLONE	(b)	WET COLLECTOR	(b)	ADSORBER	(b) 5	BAGHOUSE
(c)	MULTIPLE CYCLONE	(c)	VENTURI SCRUBBER	(c)	FILTER PADS	(c)	ELEC. PRECIPITATOR
(d)	INERTIAL COLL. — OTHER	(d)		(d)	AFTERBURNER	(d)	OTHER

23. BASIC EQUIPMENT COST (Estimate) $464,400

24. CONTROL EQUIPMENT COST (Estimate) $400,000

25. DAILY HOURS 24hours FROM _____ AM to _____ PM

26. DAYS OF OPERATION (Circle) S M T W T F S

27. ESTIMATED STARTING DATE OF CONSTRUCTION: MARCH, 1995

28. ESTIMATED COMPLETION DATE OF CONSTRUCTION: MAY, 1995

29. RAW MATERIALS (List starting material used in process) AND FUELS (Type and amount)	ANNUAL AMT. UNITS	30. PRODUCTS (List End Products)	ANNUAL PROD. UNITS
(a)		(a) PORTLAND CEMENT	750,000 TONS
(b)		(b)	
(c)		(c)	
(d)		(d)	
(e)		(e)	
(f)		(f)	
(g)		(g)	

AGCS2M002193

SEA0596

Notice of Construction Application | FORM P

STACKS OR VENTS (LIST NUMBER, TYPE, AND SIZE OF VENT)

31. NO. OF UNITS	DESCRIPTION OF OPENING	32. HEIGHT ABOVE GRADE (FT.)	33. VOLUME EXHAUSTED (ACFM)	DIMENSIONS (INCHES) 34. LENGTH (OR DIAM)	35. WIDTH
(a)	STACKS				
(b)	FLUES				
(c)	PROCESS OR GENERAL EXHAUST				
(d) 5	PROCESS OR GENERAL VENTS	(2) 86'/(2)75' / (1)55'	(2) 77k/(2) 10k / (1) 5k	(2) 5.2 ft² / (1) 14inches²	(2) 20inches²
(e)	SKYLIGHT OR WINDOW				
(f)	EXHAUST HOOD				
(g)	OTHER				

FLOW DIAGRAM

36. FLOW DIAGRAM INSTRUCTIONS:

(a) FLOW DIAGRAM MAY BE SCHEMATIC. ALL EQUIPMENT SHOULD BE SHOWN WITH EXISTING EQUIPMENT SO INDICATED.
(b) SHOW FLOW DIAGRAM OF PROCESS STARTING WITH RAW MATERIALS USED AND ENDING WITH FINISHED PRODUCT.
(c) IF MORE THAN ONE PROCESS IS INVOLVED TO MAKE FINISHED PRODUCT, SHOW EACH PROCESS AND WHERE THEY MERGE.
(d) INDICATE ALL POINTS IN PROCESS WHERE GASEOUS OR PARTICULATE POLLUTANTS ARE EMITTED.
(e) FLOW CHART CAN BE ATTACHED SEPARATELY IF NECESSARY. (DRAWINGS MAYBE SUBMITTED INSTEAD IF DESIRED).
(f) SHOW PICKUP AND DISCHARGE POINTS FOR HANDLING OR CONVEYING EQUIPMENT.

SEE PROPOSAL # 29453

37. LIST OF ATTACHMENTS AND ACCOMPANYING DATA OR COMMENTS:

FORM R	SITE PLAN	ENVIRONMENTAL CHECKLIST
FORM S	NARRATIVE	
FLOW DIAGRAM	EMISSION ESTIMATE	EQUIPMENT SCHEDULE

38. CERTIFICATION:

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION AND THE ACCOMPANYING FORMS, PLANS, AND SUPPLEMENTAL DATA DESCRIBED HEREIN IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE AND COMPLETE.

39. SIGNATURE	40. DATE	
Gerald A. Brown	11/10/94	
41. TYPE OR PRINT NAME	**42. TITLE**	**43. PHONE**
Gerald A. Brown	MGR. SAFETY + ENV	623-5596

PUGET SOUND AIR POLLUTION CONTROL AGENCY

Engineering Division ▪ 110 Union Street, Room 500 ▪ Seattle, Washington 98101-2038 ▪ (206) 689-4052

NOTICE of CONSTRUCTION & APPLICATION for APPROVAL

FOR AIR POLLUTION CONTROL EQUIPMENT ONLY

FORM R

For Agency Use: Date: _____ N/C# _____

*Note: Information required by Section 1a must be completed for this form to be accepted for review.

1	a. Complete the Sections Indicated* [ ]1 [ ]2 [ ]3 [ ]4 [ ]5 [ ]6 [ ]7 [ ]8 [ ]9 [ ]10 [ ]11 [ ]12		b. Company (or owner) Installation Address: 3801 E MARGINAL WAY SOUTH, SEATTLE WA 98134	
	c. Company (or owner) Name: ASH GROVE CEMENT COMPANY		d. Applicant	
	e. Prepared by (name and title): GERALD J BROWN		f. Prepared by (signature)	g. Phone: 623-5596
2	a. AIR POLLUTION CONTROL EQUIPMENT	b. Type of Equipment: BAGHOUSE	c. Make & Model	d. Dimensions (LxWxH) 2EA @ 24'x25'x16'/ 6'x6'x10'
	e. Number of Units: 5	f. Capacity ACFM (2) 77,000, (2) 10,000, (1) 5,000	g. Auxiliary Equipment	h. Connected to:
3	a. BAGHOUSE	b. Number of Bags	c. Shaking Cycle (auto or manual rapping or reverse air) PULSE JET	d. Cloth Area 2 ea @ 18689ft^2 @ 1667 ft^2/833 ft^2
	e. Material Used	f.	g. Air-to-Cloth Ratio (ft/minute)	h. Connected to:
4	a. ELECTROSTATIC PRECIP.	b. Electrode Separation (ft)	c. Coll. Electrode Dimensions LxW (ft)	d. Mean Velocity of Gas (ft/sec)
	e. Area (sq ft)	f. Voltage	g. Coll. Electrode or Plate Area (sq ft)	h. Connected to:
5	a. BURNERS	b. Type of Burner, Fuel	c. Make & Model	d. Rating
	e. Number of Units; Ignition: 5	f.	g. CFM Exhausted (Temperature) 77k/10k,5k (175/90°F)	h. Connected to: FAN
6	a. STACKS, VENTS	b. Type of Vent	c. Dimensions (LxWxH)	d. Dampers
	e. No. of Vents; Material Used	f.	g. CFM Exhausted (Temperature) _____ (_____°F)	h. Connected to:
7	a. SCRUBBERS	b. Type of Flow (spray, bubbler)	c. Packing Type/Size	d. Pressure Drop (inches of water)
	e. Composition of Solution	f.	g. Flow Rate (GPM)	h. Make-Up (GPM)
8	a. FANS	b. Type of Fan (designate blade) (2) 77k backward incline	c. Make & Model	d. Motor Data (2) 350 (2) 30 _____ RPM (1) 10 HP
	e. Number of Fans; Material Used: 5	f. (2) 10k (1) 5k : paddle wheel	g. CFM Exhausted (Temp @ SP) 77k/10k,5k (175/90°F)	h. Connected to: SEPARTATOR/BELT & BINS
9	a. CYCLONES	b. Type of Cyclone [ ] Common [ ] Split Duct [ ] Multiclone	c. Make & Model	d. Inlet Area (sq ft)
	e. Number of Units; Material Used	f. Body Dia. (in.) / Outlet Dia. (in.)	g. Body Height (in.) / Efficiency	h. Connected to:
10	a. COLLECTION DATA	b. Description of Collected Matl. CEMENT/CLINKER DUST	c. Amount Collected (lbs/day) (2) 60^t/hr;(2) 2^t/hr;(1)1^t/hr	d. Particle Size (microns avg.) 20 um
	e. Types of Pollutants [ ] Gas [x] Particulate [ ] Odor	f.	g. Collection Efficiency	h. Disposition of Collection Waste RECYCLE BACK
11	a. GAS FLOW	b. Actual CFM (2) 77,000/ (2) 10,000 (1) 5,000	c. SCFM (Reg I Standard)	d. Temperature (°F) In 175/90 Out 175/90
	e. Pressure Drop 3-6in	f. Efficiency	g. Inlet and Outlet Pollutant Concentrations ALL .005 gr/dscf	h.
12	a. ADDITIONAL DATA	b. [ ] Attach Brochure	c. [ ] Attach Plans/Specs	d. [x] Attach Emission Estimate (show calculation)
	e. [x] Submit Narrative Description of Process	f. [ ] Submit Source Test Data	g. [ ] Submit Modeling Data	h. [x] Attach Schedule of Equipment with Make, Model, Capacity
	i. [ ]	j. [ ]	k. [ ]	l. [ ]

PUGET SOUND AIR POLLUTION CONTROL AGENCY

Engineering Division ▪ 110 Union Street, Suite 500 ▪ Seattle, Washington 98101-2038 ▪ (206) 689-4052

NOTICE of CONSTRUCTION & APPLICATION for APPROVAL

FOR BASIC PROCESS EQUIPMENT | **FORM S** | For Agency Use: Date: _____ N/C# _____

*Note: Information required by Section 1a must be completed for this form to be accepted for review.

1

a. Complete the Sections Indicated* [ ]1 [ ]2 [ ]3 [ ]4 [ ]5 [ ]6 [ ]7 [ ]8 [ ]9 [ ]10 [ ]11 [ ]12	b. Company (or owner) Installation Address: 3801 E MARGINAL WAY SOUTH, SEATTLE WA 98134
c. Company (or owner) Name: ASH GROVE CEMENT	d. Applicant: SAME
e. Prepared by (name and title): GERALD J BROWN	f. Prepared by (signature): Gerald J Brown — g. Phone: 623-5596

2

a. PROCESS EQUIPMENT	b. Title: HIGH EFFICIENCY SEPARATORS	c. Make & Model: STURTEVANT / SD90	d. Dimensions (LxWxH)
e. # of Units; Rated Capacity: 2, 60 tons/day	f.	g. Auxiliary Equipment	h. Connected to: FINISH MILLS

3

a.	b.	c.	d.
e.	f.	g. Equipment	h. Connected to:

4

a. BURNERS	b. Type of Burner, Fuel	c. Make & Model	d. Rated Capacity
e. # of Units; Ignition Method	f.	g. CFM Exhausted (Temperature) _____ (_____°F)	h. Connected to:

5

a. STACKS, VENTS, AND EXHAUST OPENINGS	b. Type of Vent	c. Dimensions	d.
e. # of Vents; Material of Construction	f.	g. CFM Exhausted (Temperature) _____ (_____°F)	h. Connected to:

6

a. TANKS AND KETTLES	b. Type of Tank, Material	c. Dimensions (LxWxH) in inches	d. Surface Area (sq. ft.) [ ] Closed [ ] Open
e. # of Tanks; Material of Construction	f.	g. Auxiliary Equipment	h. Connected to:

7

a. FANS	b. Type of Fan (designate blade)	c. Make & Model	d. Motor Data _____ RPM _____ HP
e. # of Fans; Material of Construction	f.	g. CFM Exhausted (Temperature) _____ (_____°F)	h. Connected to:

8

a. OVENS & FURNACES	b. Type of Oven or Furnace	c. Make & Model	d. Rated Capacity
e. # of Ovens or Furnaces; Material of Construction	f.	g. CFM Exhausted (Temperature) _____ (_____°F)	h. Connected to:

9

a. OPERATIONAL DATA	b. Type of Operation [ ] Batch [X] Continuous	c. Operating Schedule (normal) Shifts/Day: [ ] 1 [X] 2 [ ] 3	d. Mode of Operations [ ] Manual [X] Auto [ ] Semi-Auto
e. Duration of Batch (hrs/batch)	f.	g. Daily # of Batches _____ avg _____ max	h.

10

a. CONVEYORS	b. Type of Conveyor (pneumatic, bolt)	c. Make & Model	d. Capacity
e. Dimensions (LxWxH)	f.	g. # of Pickups # of Discharge Points	h. Connected to:

11

a. GAS FLOW	b. Actual CFM: 77,000 ACFM	c. SCFM (Reg I Standard)	d. Temperature (°F) In 70 Out 175
e. Pressure Drop	f. Efficiency	g. Inlet and Outlet Pollutant Concentrations	h.

12

a. ADDITIONAL DATA	b. [ ] Attach Brochure	c. [ ] Attach Plans/Specs	d. [X] Attach Emission Estimate (show calculation)
e. [X] Submit Narrative Description of Process	f. [ ] Submit Source Test Data	g. [ ] Submit Modeling Data	h. [X] Attach Schedule of Equipment with Make, Model, Capacity
i. [ ]	j. [ ]	k. [ ]	l. [ ]

Form 50-125S (6/92)

AGCS2M002196 SEA0599

PUGET SOUND AIR POLLUTION CONTROL AGENCY
110 Union Street, Suite 500
Seattle, Washington 98101

ENVIRONMENTAL CHECKLIST

WAIT - You may not need to fill out the attached checklist.
Please read and check the following:

Because of the State Environmental Policy Act, the action for which you are filing a Notice of Construction and Application for Approval to this Agency requires the completion of an environmental checklist.

BUT: If you can answer "yes" to either of the following questions with respect tc the action being proposed, the attached checklist need not be completed:

1. I have obtained a State, City or County Permit and filled out an environmental checklist.

[ ] Yes [x] No

If you answered "yes", give State, City or County Department and date, and attach a copy of the checklist.

---

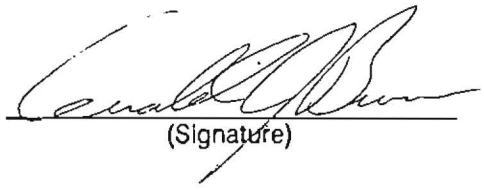
2. An environmental checklist or assessment has previously been filled out for another agency.

[ ] Yes [x] No

If "yes", give agency and date, and attach a copy of the checklist.

If your answer to both of the above questions was "no", you must fill out the attached environmental checklist.

Prepared by:



(Signature)

GERALD J BROWN
(Print Name)

MANAGER SAFETY AND ENVIRONMENTAL
(Title)

Puget Sound Air Pollution Control Agency

110 Union Street, Suite 500
Seattle, Washington 98101
Telephone: (206) 343-8800
1-800-552-3635

Date: 11/10/94

Proponent: ASH GROVE CEMENT COMPANY

Project, Brief Title: High Efficiency Separators

ENVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply". Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic areas," respectively.

TO BE COMPLETED BY THE APPLICANT

A. BACKGROUND

1. Name of proposed project, if applicable:

   High Efficiency Separators

2. Name of applicant: ASH GROVE CEMENT COMPANY

3. Address and phone number of applicant and contact person:

   Name: GERALD J BROWN Title: MANAGER SAFETY & ENVIRONMENTAL

   Firm: ASH GROVE CEMENT COMPANY Telephone: (206) 623-5596

   PO Box/Street: 3801 E MARGINAL WAY SOUTH

   City/State/Zip: SEATTLE WA 98134

4. Date checklist prepared:

5. Agency requesting checklist: PSAPCA

6. Proposed timing or schedule (including phasing, if applicable):

   Project start scheduled for March 1995. To be completed May 1995.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   NO

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

The environmental checklist prepared in December 1988 for construction of the plant is directly related to this proposal.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None

10. List any government approvals or permits that will be needed for your proposal, if known.

None

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

This project is to; 1). Increase both finish mill production to 60 tph to match annual kiln production and 2). Improve quality of product produced. This will be accomplished by replaceing existing cement separators with high efficiency units, replacing separator dust collectors with high efficienc units. Two existing dust collectors venting the mill feed equipment and feed bin will be replaced by three high efficiency units as a result in upgrading the dust collection equipment, dust existing from the collector wiil reduced considerably.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The location is at the Ash Grove Cement Plant located at 3801 E. Marginal Way So., Seattle, WA 98134,

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): (Flat), rolling, hilly, steep slopes, mountainous, other: _____

b. What is the steepest slope on the site (approximate percent slope)?

2 percent

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

Hydraulic dredge fill overlying alluvial sands and silts with glacially consolidated sandy silt at considerable depths, about 200 feet below the existing ground surface elevation.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

None.

f. Could erosion occur as a result of clearing, construction or use? If so, generally describe.

No.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

N/A

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

N/A

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial, wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Dust emissions from the new collectors will be reduced from 66 tpy to 24 tpy.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

The process is vented by fabric filter dust collectors.

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The Duwamish River flows along the west border of the plant site.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

NO

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose and approximate quantities if known.

No.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the systems, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Storm water runoff will continue to be collected in the existing plant storm water system.

2) Could waste material enter ground or surface waters? If so, generally describe.

No.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

None.

4. Plants

a. Check or circle types of vegetation found on the site:

X deciduous tree: alder, maple, aspen, other
X evergreen tree: fir, cedar, pine, other
X shrubs
X grass
___ pasture
___ crop or grain
___ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
___ water plants: water lily, eelgrass, milfoil, other
___ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

None.

c. List threatened or endangered species known to be on or near the site.

None.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

None.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

None.

Birds: hawk, heron, eagle, songbirds, other:

_____

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site.

None.

c. Is the site part of a migration route? If so, explain.

No.

d. Proposed measures to preserve or enhance wildlife, if any:

None.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electricity.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

1) Describe special emergency services that might be required.

None.

2) Proposed measures to reduce or control environmental health hazards, if any:

N/A

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Various pieces of heavy machinery are located at the plant site.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Minor increase in current noise levels is expected.

3) Proposed measures to reduce or control noise impacts, if any:

Fans will enclosed in the mill building.

8. Land and Shoreline use

a. What is the current use of the site and adjacent properties?
Heavy manufacturing.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.
At the site are a 14 foot diameter cement kiln, 260 foot tall preheater tower, raw material silos, clinker storage silos and shed, cement storage silos, raw mill building, finish mill building, packhouse building, motor control centers, plant office and sales office.

d. Will any structures be demolished? If so, what?
No.

e. What is the current zoning classification of the site?
General Industrial 1 (IG 1)

f. What is the current comprehensive plan designation of the site?
Industrial

g. If applicable, what is the current shoreline master program designation of the site?
Urban Industrial (UI)

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Not Applicable

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Not Applicable

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Not Applicable

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

Not Applicable

c. Proposed measures to reduce or control housing impacts, if any:

Not Applicable

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

90 feet, corrugated cement panels.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Not Applicable

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

None.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Not Applicable

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

No.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

Does not apply

c. Proposed measures to reduce or control impacts, if any:

Does not apply

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

East Marginal Way serves the site. Access is by way of an existing driveway entrance at the northeast corner of the property.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No. The closest transit stop is 1000 feet away.

c. How many parking spaces would the completed project have? How many would the project eliminate?

Will not change from current levels.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

None.

D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS

(Do not use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substance; or production of noise?

   Small amounts of fugitive dust will be emitted from the baghouse. A new fan will generate some additional noise.

   Proposed measures to avoid or reduce such increase are:

   Due to bag house moderization a reduction from 66 tpy to 24 tpy will result.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

   The proposal will have negligable impact.

   Proposed measures to protect or conserve plants, animals, fish, or marine life are:

   Not Applicable

3. How would the proposal be likely to deplete energy or natural resources?

   The proposal will result in a negligable increase in energy consumption of the plant.

   Proposed measures to protect or conserve energy and natural resources are:

   The efficiency of the mils will be improved.

g. Proposed measures to reduce or control transportation impacts, if any:

None.

15. Public Services

a. Would the project result in an increased need for public services (for example, fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

Not Applicable

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

b. Describe the utilities that are proposed for the project, the utility providing the service, and service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Date Submitted: 11/10/94

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

Does not apply

Proposed measures to protect such resources or to avoid or reduce impacts are:

Does not apply

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

Does not apply

Proposed measures to avoid or reduce shoreline and land use impacts are:

Does not apply

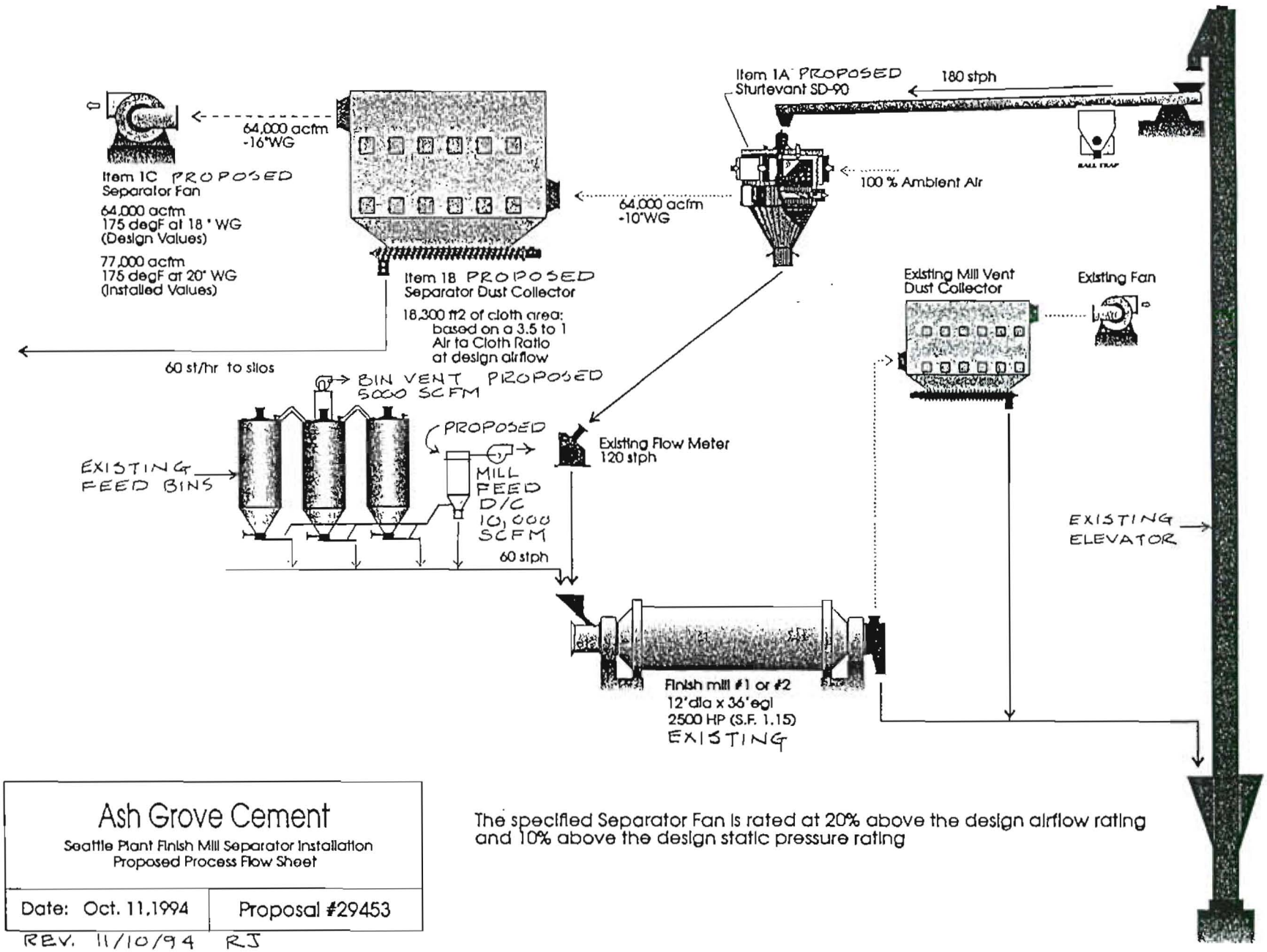
6. How would the proposal be likely to increase demands on transportation or public services and utilities?

It will not increase demand in transportation or services. Power consumption will increase slightly.

Proposed measures to reduce or respond to such demand(s) are:

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

Does not apply



Ash Grove Cement

Seattle Plant Finish Mill Separator Installation
Proposed Process Flow Sheet

Date: Oct. 11,1994	Proposal #29453

REV. 11/10/94 RJ

The specified Separator Fan is rated at 20% above the design airflow rating and 10% above the design static pressure rating

FINISH MILL HIGH EFFICIENCY SEPARATORS
PROJECT DESCRIPTION

The purpose of this project is two fold. The first goal is to increase finish mill production to 60 tph on each of the two mill circuits in order to match annual kiln production. The second goal is to improve product quality by controlling the product particle size distribution to a more narrow band of sizes. These goals will be accomplished by replacing the existing the cement separators in the mill circuits with two new high efficiency separators. The existing separators are each vented by a 16,800 scfm dust collector for nuisance venting. These two dust collectors will be removed and replaced by two 64,000 scfm dust collectors which will receive the full product output from the separators. The discharge from the proposed dust collectors will constitute the product stream from the finish mill and will be routed to the existing cement pumps and thence to storage. Over size material rejected by the separators will be returned to the mills for regrinding.

To make room for the new separator dust collectors, two existing dust collectors which vent the mill feed equipment and the feed bins will be removed and replaced by three new modern dust collectors. Two will be rated at 10,000 scfm and will vent the mill feed equipment. One will be rated at 5000 scfm and will vent the feed bins.

The dust output from the new dust collectors will be at or below 0.005 gr/dscf as opposed to 0.05 gr/dscf for the old dust collectors. This will result in net decrease in pollutant output from 66 tpy to 24 tpy for the affected dust collectors.

Ash Grove Cement Company
3801 E. Marginal Way So.
Seattle, Washington

re: Finish Mill High Efficiency Separator Project
Emission Estimates: PM reduction of 41.52 tons/year

Current with PSAPCA Control Apparatus (CE) No. 7 and 8:

(# units	x scfm	x gr/dscf)/7000 gr/lb.	x 60min/hr	x 24hr/day	= lb/day;	tpy
(2	x 16,800	x 0.05)/7000 gr/lb.	x 60min/hr	x 24hr/day	= 345.60	63.07
(2	x 3,864	x 0.05)/7000 gr/lb.	x 60min/hr	x 24hr/day	= 79.49	14.50
					Total = 425.09	77.57

77.57 tpy x 85% run time = 65.94 Tons/year

Project Expected Values with new dust collectors replacing those above:

(# units	x scfm	x gr/dscf)/7000 gr/lb.	x 60min/hr	x 24hr/day	= lb/day;	tpy
(2	x 64,000	x 0.005)/7000 gr/lb.	x 60min/hr	x 24hr/day	= 131.66	24.03
(2	x 10,000	x 0.005)/7000 gr/lb.	x 60min/hr	x 24hr/day	= 20.57	3.75
(1	x 5,000	x 0.005)/7000 gr/lb.	x 60min/hr	x 24hr/day	= 5.14	0.94
					Total = 157.37	28.72

28.72 tpy x 85% run time = 24.42 Tons/year

FINISH MILL HIGH EFFICIENCY SEPARATORS
EQUIPMENT LIST

1.	Sturtevant SD-90 High Efficiency Separator	1 per mill
2.	Separator Dust Collector, 64,000 scfm, 3.42:1 air to cloth ratio, 18689 sq. ft. of cloth	1 per mill
3.	Fan, Twin City M/N 490, type BCS, 77,000 acfm w/ 350 hp tefc motor	1 per mill
4.	Feed Bin Dust Collector, 5000 scfm, 6.0:1 air to cloth ratio, 833 sq. ft. of cloth, with fan	1 only
5.	Mill Feed Dust Collector, 10,000 scfm, 6.0:1 air to cloth ratio, 1,667 sq. ft. of cloth, with fan	1 per mill